### Flood Control Project Maintenance Levee Inspections

# **LMA District Cover Sheet**

**Spring 2017 Levee Inspection Results** 

# **Sutter Maintenance Yard Maintenance Area 0016**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				
	** Non-receipt of Summ Reports may effect or			
FALL INSPECTIONS: The overall maintena	d using the same criter ance rating shown abo	ria in the spring and in ve is based on operati	the fall.	ficiencies identified
Comments				

## **Unit Cover Sheet**

**Spring 2017 Levee Inspection Results** 

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	4.06

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/23/2017 - 3/23/2017			
DWR Inspector	Sterling York			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

## http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Operations & Maintenance				0		0
пеш	Manuals				0		0
DWR ID	DWR_MA0	016_01_s _ 201	3_3				
		Comn	nent Cod	le			
Inspector Comment							
SBFCA has turned over to MA 0016. The O&M manuals are located at the Sutter Maintenance Yard.							

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *		WS	
Category	Catagoni Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End	
ltom	Flood Pre	paredness &	Training		0		0
пеш	Item				٥		0
DWR ID	DWR_MAG	016_01_s _ 201	3_4				
Comment Code							

No Photos

## Inspector Comment

Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		WS	
Earthen Levee			GPS La	atitud	le/Longitude		
Category	Category			Start		End	
Item	Emergency Supplies &				0		0
item	Equipmer	nt			0		0
DWR ID	DWR_MAG	016_01_s _ 201	3_5				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			

No Photos

Emergency supplies and equipment are stored at the Sutter
Maintenance Yard.

Location LS : Land Side N/A : Not Applicable WS: Water Side CR : Crown

Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

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# Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	0.06	Rating **	М	Issue No.		2	
LIVI Start						<del>-</del>	
LM End	0.10	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		39.2566	18°	39.257228 °	
item					42 °	-121.636462 °	
DWR ID DWR_MA0016_01_s _ 2012_2							
		Comn	nent Cod	le			
V6 : Lands	caping						
Inspector Comment							



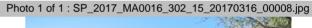
This photo shows the landscaping on the landside slope and toe.

LM Start	0.18	Rating **	М	Issue No.		15	
LM End	0.18	Issue Type +	En	Location *		LS	
Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Encroachments			39.2584	37°	39.258437 °	
item	item				13 °	-121.636613 °	
DWR ID DWR_MA0016_01_s _ 2012_15							
		Comn	ant Can	ام			

#### Comment Code

BU : Building

## Inspector Comment





Levee mile 0.18. This photo shows the building on the landside shoulder and toe.

LM Start	0.44	Rating **	A/W	Issue No.	7		
LM End	0.49	Issue Type +	En	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Category	Category					End	
Item	Encroach	ments		39.2622	13°	39.262825°	
пеш	item				45 °	-121.636430 °	
DWR ID DWR_MA0016_01_s _ 2012_7							
Comment Code							

BU: Building

#### Inspector Comment

Landscape & fence has been removed and house is 13' from levee toe.

## Photo 1 of 2: SP\_2017\_MA0016\_302\_7\_20170327\_00013.jpg



View of the removed landscaping, fence, and the portion of the house that was encroaching the right-of-way. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	0.44	Rating **	A/W	Issue No.		7 (cont)
LM End	0.49	Issue Type +	En	Location *		LS
Category	Catagoria Earthen Levee					le/Longitude
Calegory				Start		End
Item	Encroach	ments		39.26221	3°	39.262825 °
пеш				-121.63654	5°	-121.636430 °
DWR ID DWR_MA0016_01_s _ 2012_7						·

Comment Code

BU: Building

Inspector Comment

Landscape & fence has been removed and house is 13' from levee toe.



Levee mile 0.49. This photo shows the building and landscaping on the landside slope and toe, Fall 2016.

LM Start	2.85	Rating **	М	Issue No.		14		
LM End	3.08	Issue Type +	En	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Calegory	Category			Start		End		
Item	Encroach	ments		39.293675°		39.296748°		
пеш				-121.6366	15 °	-121.638192 °		
DWR ID	DWR_MA0	016_01_s _ 201	2_14					
	Comment Code							
DT : Ditch								

Inspector Comment



Agricultural ditch land side slope and toe.

Photo 1 of 1: SP\_2017\_MA0016\_302\_10\_20170327\_00014.jpg

LM Start	3.19	Rating **	A/W	Issue No.		10		
LM End	3.65	Issue Type +	Ма	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Category	Calegory					End		
Itom	Vegetatio	n		39.2983 <sup>-</sup>	12°	39.305053°		
Item				-121.6383	27 °	-121.637729°		
DWR ID DWR_MA0016_01_f _ 2016_10						·		
	Comment Code							

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Annual grasses are maintained.





View looking upstream, landside, of annual grasses that are maintained. Spring 2017.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	3.19	Rating **	A/W	Issue No.		9		
LM End	3.81	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee		GPS L	atitud	le/Longitude		
Category				Start		End		
Item	Vegetatio	n		39.2983	312°	39.307293°		
пеш				-121.6383	28°	-121.637671 °		
DWR ID DWR_MA0016_01_f _ 2016_9								
	Comment Code							
V1 : Contre	•	grass and wee	ds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				
Annual gra	asses are r	naintained.						



View looking upstream, waterside, of annual grasses that are maintained. Spring 2017.

11101	2.27	Rating **	М	Issue No.		11		
LM Start	3.27	Rating	IVI	issue ivo.		11		
LM End	3.27	Issue Type +	En	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Encroach	ments		39.2995	02°	39.299502°		
item				-121.6383	26°	-121.638326 °		
DWR ID DWR_MA0016_01_s _ 2016_11								
	Comment Code							
PR : Pruni	ngs							
			-					
		Inspecto	or Comm	nent				
Logs still o	n levee cr	own, watersid	e, as of 2	2016 fall ins	spec	tion.		
•								



Large pruning on waterside slope.

MA0016

#### Flood Control Project Maintenance Levee Inspections

## Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	3.39	Rating **	М	Issue No.		16
LM End	3.39	Issue Type +	Ma	Location *		WS
Category	Suppleme	ental	GPS Latitude/Longitude			
Calegory				Start		End
Item	DWR UCI	DWR UCIP LMA Responsibility			8°	39.301218°
пеш					2°	-121.638332 °
DWR ID						

## Inspector Comment

Comment Code

FS ID:51157 DS\_ID:17125 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 12/1/2016 LS inlet completely buried. (DWR Sutter Yard- AFreitag)5/26/2016 LS inlet was completely buried.6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is burried in soil. pipe appears corroded. FIELD\_STRUCT\_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Concrete headwalls on both the waterside (WS) and landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955 (Station 646+96)]. FS Date: 12/2/2016 10:08:55 AM

LM Start	3.39	Rating **	М	Issue No.	16 (cont)
LM End	3.39	Issue Type +	Ma	Location *	WS

# Photo 1 of 2: UCIP\_SP\_2017\_51157\_65782.jpg



Headwall at LS toe is cracked and the inlet is burried in soil.

### Photo 2 of 2: UCIP\_SP\_2017\_51157\_65781.jpg



Headwall on WS toe with flap gates.

## Levee Inspection Report By Mile - Spring 2017

## **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	3.39	Rating **	М	Issue No.		17		
LM End	3.39	Issue Type +	En	Location *		WS		
Category	Supplemental			GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCIP Field Study		39.30121	18 °	39.301218°			
пеш				-121.63833	32 °	-121.638332 °		
DWR ID								

# Inspector Comment

Comment Code

FS\_ID:51158 DS\_ID:17183 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 12/1/2016 LS inlet is comletely buried. (DWR Sutter Yard- AFreitag)5/26/2016 LS inlet was completely buried.6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.5/19/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovered.

FIELD\_STRÚCT\_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Headwalls at both the waterside (WS) and landside (LS) ends and a flap gate on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955 (Station 646+96)]. FS Date: 12/2/2016 10:09:48 AM

 LM Start
 3.39
 Rating \*\*
 M
 Issue No.
 17 (cont)

 LM End
 3.39
 Issue Type +
 En
 Location \*
 WS



Pipe should be located on either side of the one visible in this picture.

## Photo 2 of 2: UCIP\_SP\_2017\_51158\_65779.jpg



Headwall and flap gate on WS toe.

# Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/23/2017 03/23/2017	Sterling York

LM Start	3.90	Rating **	С	Issue No.		8	
LM End	4.04	Issue Type +	En	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Encroachments ltem		39.308616°		39.310697			
пеш				-121.6376	74 °	-121.637691 °	
DWR ID	DWR ID DWR_MA0016_01_f _ 2016_8						
Comment Code							
TR : Tree or limb							
Inspector Comment							
Tree limbs are no longer an issue because the trees have been cut down. Spring 2017.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement